

PHOTONIC DATA STORAGE NETWORK

ABSTRACT OF THE DISCLOSURE

A system and method for transmitting traffic in an optical network is provided. The system includes an optical ring. A plurality of local nodes are coupled to the optical ring. Each local node of the plurality of local nodes configured to receive traffic at an assigned wavelength, disparate from wavelengths assigned to other local nodes. A data center node is coupled to the optical ring and operable to receive traffic from the plurality of local nodes, sort at least some of the traffic by destination, and transmit the traffic to a corresponding destination node at the assigned wavelength for that node.

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